

**Abstract**

A system estimates the utilization of an electromagnetic signal receiver. The system includes a detection module and a processing module. The detection  
5 module receives electromagnetic signals from a surrounding environment. The electromagnetic signals are chronologically segregated into a plurality of dwells each with an elapsed time. The processing module controls the scanning of the surrounding environment. The processing  
10 module receives data about the signals from the detection module. The processing module computes a plurality of utilizations by dividing each individual elapsed time by a predetermined sample interval. The processing module further determines a total utilization by adding the  
15 plurality of utilizations.